

Claims

- [c1] 1.A fluid storage tank having an interior volume and a floor and having an internal spill containment chamber, said chamber comprising:
- (a)a containment wall which completely separates the chamber from the tank interior volume;
 - (b)an attachment flange disposed about a periphery of the chamber for attachment to the tank;
 - (c)at least one fluid outlet for fluid communication with the tank interior volume;
 - (d)valve means associated with the fluid outlet for controlling fluid flow through the fluid outlet; and
 - (e)low-friction support means disposed between the tank floor and the containment chamber.
- [c2] 2.The tank of claim 1 wherein said chamber further comprises a heater.
- [c3] 3.The tank of claim 1 or 2 wherein the low friction support means comprises at least one plastic insert.
- [c4] 4.The tank of claim 4 wherein the low-friction support means comprises a high-density polyethylene plastic.

- [c5] 5.The tank of claim 1 wherein the containment chamber and attachment flange is shaped to fit into an existing manway opening.
- [c6] 6.The tank of claim 1 or 6 wherein the attachment flange is bolted to an exterior surface of the tank using pre-existing or newly created bolt holes.
- [c7] 7.The fluid storage tank of claim 1 further comprising recovery means within the chamber for recovering fluids from the chamber.
- [c8] 8.The fluid storage tank of claim 7 wherein the recovery means is secured to the fluid outlet.
- [c9] 9.The fluid storage tank of claim 8 wherein the recovery means comprises recovery valve means for controlling fluid flow through the fluid outlet and a recovery pipe having a first end and a second end where the recovery pipe is attached to the recovery valve means and the recovery pipe extends into the chamber.
- [c10] 10.The recovery means of claim 9 wherein the recovery pipe can extend either vertically or horizontally into the chamber.
- [c11] 11.The fluid storage tank of claim 9 wherein the recovery valve means is secured to the fluid outlet in a position

located between the end of the fluid outlet protruding into the chamber and the fluid outlet valve means such that when suction is applied to the end of the fluid outlet and the recovery valve means is open and the fluid outlet valve means is closed, fluid in the chamber may be recovered.

- [c12] 12.A method of fitting a fluid storage tank with a spill containment chamber, wherein said tank defines a pre-existing or newly created manway opening, said method comprising the steps of:
- (a) providing a containment chamber having an attachment flange which is larger than the manway opening;
 - (b) sliding the chamber into the tank through the manway opening using a low-friction support device disposed between the tank floor and the containment chamber;
 - (c) bolting the attachment flange to the tank using pre-existing or newly created bolt holes.